

EXCELCHEM
Environmental Labs

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ELAP Certificate No. : 2119

09 August 2012

Calvin Yang

RWQC Central Valley

11020 Sun Center Dr. #200

Rancho Cordova, CA 95670

RE: MUN Evaluation

Work order number:1207334

Enclosed are the results of analyses for samples received by the laboratory on 07/26/12 15:50. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AWL120726-40	1207334-01	Water	07/26/12 08:01	07/26/12 15:50
AWL120726-41	1207334-02	Water	07/26/12 08:49	07/26/12 15:50
AWL120726-42	1207334-03	Water	07/26/12 09:06	07/26/12 15:50
AWL120726-43	1207334-04	Water	07/26/12 09:20	07/26/12 15:50
AWL120726-44	1207334-05	Water	07/26/12 09:51	07/26/12 15:50
AWL120726-45	1207334-06	Water	07/26/12 10:18	07/26/12 15:50
AWL120726-46	1207334-07	Water	07/26/12 13:32	07/26/12 15:50
AWL120726-50	1207334-08	Water	07/26/12 08:01	07/26/12 15:50
AWL120726-51	1207334-09	Water	07/26/12 07:30	07/26/12 15:50
AWL120726-55	1207334-10	Water	07/26/12 11:31	07/26/12 15:50
AWL120726-56	1207334-11	Water	07/26/12 11:42	07/26/12 15:50
AWL120726-57	1207334-12	Water	07/26/12 11:53	07/26/12 15:50
AWL120726-58	1207334-13	Water	07/26/12 13:32	07/26/12 15:50
AWL120726-59	1207334-14	Water	07/26/12 14:18	07/26/12 15:50
AWL120726-60	1207334-15	Water	07/26/12 14:31	07/26/12 15:50

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-40 1207334-01 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Ethanol	ND	20.0	2.6	ug/l	1	AVG0350	07/30/12	07/30/12	EPA 8260B	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichloropropane	ND	0.5	0.1	"	1	"	"	"	"	

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Project: MUN Evaluation
Project Number: 10-026-150-0
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Date Reported:
08/09/12 10:09

AWL120726-40 1207334-01 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

cis-1,3-Dichloropropene	ND	0.5	0.08	ug/l	1	AVG0350	07/30/12	07/30/12	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
n-Butylbenzene	ND	0.5	0.08	"	1	"	"	"	"	

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Laboratory Representative

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Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-40 1207334-01 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dibromo-3-chloropropane	ND	0.5	0.3	ug/l	1	AVG0350	07/30/12	07/30/12	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>106 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: Toluene-d8</i>	<i>102 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>124 %</i>	% Recovery Limits		<i>70-130</i>					"	

Ion Chromatography

Nitrate as Nitrogen	0.08	0.11	0.02	mg/L	1	AVG0342	07/27/12	07/27/12	EPA 300.0	J
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVG0303	07/26/12	07/26/12	SM5540C	
Total Hardness	70.0	5.00	2.86	"	1	AVG0325	07/27/12	07/27/12	SM2340B	

Total Recoverable Metals

Aluminum	146	50.0	24.5	ug/l	1	AVH0031	08/02/12	08/03/12	EPA 200.7	
Arsenic	ND	10.0	1.0	"	1	"	"	"	"	
Boron	21.4	50.0	0.8	"	1	"	"	"	"	J
Iron	188	20.0	11.5	"	1	"	"	"	"	
Manganese	36.6	10.0	0.6	"	1	"	"	"	"	
Sodium	4300	200	120	"	1	"	"	"	"	

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Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-41 1207334-02 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Ethanol	ND	20.0	2.6	ug/l	1	AVG0350	07/30/12	07/30/12	EPA 8260B	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichloropropane	ND	0.5	0.1	"	1	"	"	"	"	

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Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-41 1207334-02 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

cis-1,3-Dichloropropene	ND	0.5	0.08	ug/l	1	AVG0350	07/30/12	07/30/12	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	0.09	0.5	0.09	"	1	"	"	"	"	J
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
n-Butylbenzene	ND	0.5	0.08	"	1	"	"	"	"	

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Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-41 1207334-02 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dibromo-3-chloropropane	ND	0.5	0.3	ug/l	1	AVG0350	07/30/12	07/30/12	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>108 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: Toluene-d8</i>	<i>102 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>129 %</i>	% Recovery Limits		<i>70-130</i>					"	

Ion Chromatography

Nitrate as Nitrogen	0.11	0.11	0.02	mg/L	1	AVG0342	07/27/12	07/27/12	EPA 300.0	
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVG0303	07/26/12	07/26/12	SM5540C	
Total Hardness	70.0	5.00	2.86	"	1	AVG0325	07/27/12	07/27/12	SM2340B	

Total Recoverable Metals

Aluminum	359	50.0	24.5	ug/l	1	AVH0031	08/02/12	08/03/12	EPA 200.7	
Arsenic	1.8	10.0	1.0	"	1	"	"	"	"	J
Boron	26.9	50.0	0.8	"	1	"	"	"	"	J
Iron	736	20.0	11.5	"	1	"	"	"	"	
Manganese	151	10.0	0.6	"	1	"	"	"	"	
Sodium	5060	200	120	"	1	"	"	"	"	

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Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09


AWL120726-42 1207334-03 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Ethanol	ND	20.0	2.6	ug/l	1	AVG0350	07/30/12	07/30/12	EPA 8260B	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	0.2	5.0	0.1	"	1	"	"	"	"	J
Carbon disulfide	0.2	0.5	0.08	"	1	"	"	"	"	J
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	4.4	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichloropropane	ND	0.5	0.1	"	1	"	"	"	"	

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-42 1207334-03 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

cis-1,3-Dichloropropene	ND	0.5	0.08	ug/l	1	AVG0350	07/30/12	07/30/12	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	1.0	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
n-Butylbenzene	ND	0.5	0.08	"	1	"	"	"	"	

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Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-42 1207334-03 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dibromo-3-chloropropane	ND	0.5	0.3	ug/l	1	AVG0350	07/30/12	07/30/12	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>115 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: Toluene-d8</i>	<i>102 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>121 %</i>	% Recovery Limits		<i>70-130</i>					"	

Ion Chromatography

Nitrate as Nitrogen	0.02	0.11	0.02	mg/L	1	AVG0342	07/27/12	07/27/12	EPA 300.0	J
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Wet Chemistry

MBAS	0.0740	0.100	0.0600	mg/L	1	AVG0303	07/26/12	07/26/12	SM5540C	J
Total Hardness	238	5.00	2.86	"	1	AVG0325	07/27/12	07/27/12	SM2340B	

Total Recoverable Metals

Aluminum	ND	50.0	24.5	ug/l	1	AVH0031	08/02/12	08/03/12	EPA 200.7	
Arsenic	1.9	10.0	1.0	"	1	"	"	"	"	J
Boron	115	50.0	0.8	"	1	"	"	"	"	
Iron	42.1	20.0	11.5	"	1	"	"	"	"	
Manganese	22.4	10.0	0.6	"	1	"	"	"	"	
Sodium	67000	200	120	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09


AWL120726-43 1207334-04 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Ethanol	ND	20.0	2.6	ug/l	1	AVG0350	07/30/12	07/30/12	EPA 8260B	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	0.5	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichloropropane	ND	0.5	0.1	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-43 1207334-04 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

cis-1,3-Dichloropropene	ND	0.5	0.08	ug/l	1	AVG0350	07/30/12	07/30/12	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	0.2	0.5	0.09	"	1	"	"	"	"	J
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
n-Butylbenzene	ND	0.5	0.08	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-43 1207334-04 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dibromo-3-chloropropane	ND	0.5	0.3	ug/l	1	AVG0350	07/30/12	07/30/12	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>111 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>106 %</i>	% Recovery Limits		<i>70-130</i>					"	

Ion Chromatography

Nitrate as Nitrogen	0.09	0.11	0.02	mg/L	1	AVG0342	07/27/12	07/27/12	EPA 300.0	J
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVG0303	07/26/12	07/26/12	SM5540C	
Total Hardness	90.0	5.00	2.86	"	1	AVG0325	07/27/12	07/27/12	SM2340B	

Total Recoverable Metals

Aluminum	409	50.0	24.5	ug/l	1	AVH0031	08/02/12	08/06/12	EPA 200.7	
Arsenic	2.0	10.0	1.0	"	1	"	"	"	"	J
Boron	32.3	50.0	0.8	"	1	"	"	"	"	J
Iron	731	20.0	11.5	"	1	"	"	"	"	
Manganese	141	10.0	0.6	"	1	"	"	"	"	
Sodium	12400	200	120	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09


AWL120726-44 1207334-05 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Ethanol	ND	20.0	2.6	ug/l	1	AVG0350	07/30/12	07/30/12	EPA 8260B	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichloropropane	ND	0.5	0.1	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09


AWL120726-44 1207334-05 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

cis-1,3-Dichloropropene	ND	0.5	0.08	ug/l	1	AVG0350	07/30/12	07/30/12	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
n-Butylbenzene	ND	0.5	0.08	"	1	"	"	"	"	

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Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-44 1207334-05 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dibromo-3-chloropropane	ND	0.5	0.3	ug/l	1	AVG0350	07/30/12	07/30/12	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>110 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: Toluene-d8</i>	<i>102 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>124 %</i>	% Recovery Limits		<i>70-130</i>					"	

Ion Chromatography

Nitrate as Nitrogen	0.06	0.11	0.02	mg/L	1	AVG0342	07/27/12	07/27/12	EPA 300.0	J
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVG0303	07/26/12	07/26/12	SM5540C	
Total Hardness	96.0	5.00	2.86	"	1	AVG0325	07/27/12	07/27/12	SM2340B	

Total Recoverable Metals

Aluminum	174	50.0	24.5	ug/l	1	AVH0031	08/02/12	08/06/12	EPA 200.7	
Arsenic	2.6	10.0	1.0	"	1	"	"	"	"	J
Boron	36.7	50.0	0.8	"	1	"	"	"	"	J
Iron	366	20.0	11.5	"	1	"	"	"	"	
Manganese	43.7	10.0	0.6	"	1	"	"	"	"	
Sodium	6560	200	120	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-45 1207334-06 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Ethanol	ND	20.0	2.6	ug/l	1	AVG0350	07/30/12	07/30/12	EPA 8260B	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichloropropane	ND	0.5	0.1	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-45 1207334-06 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

cis-1,3-Dichloropropene	ND	0.5	0.08	ug/l	1	AVG0350	07/30/12	07/30/12	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
n-Butylbenzene	ND	0.5	0.08	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-45 1207334-06 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dibromo-3-chloropropane	ND	0.5	0.3	ug/l	1	AVG0350	07/30/12	07/30/12	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>111 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94.7 %</i>	% Recovery Limits		<i>70-130</i>					"	

Ion Chromatography

Nitrate as Nitrogen	0.09	0.11	0.02	mg/L	1	AVG0342	07/27/12	07/27/12	EPA 300.0	J
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVG0303	07/26/12	07/26/12	SM5540C	
Total Hardness	108	5.00	2.86	"	1	AVG0325	07/27/12	07/27/12	SM2340B	

Total Recoverable Metals

Aluminum	350	50.0	24.5	ug/l	1	AVH0031	08/02/12	08/06/12	EPA 200.7	
Arsenic	2.8	10.0	1.0	"	1	"	"	"	"	J
Boron	31.8	50.0	0.8	"	1	"	"	"	"	J
Iron	421	20.0	11.5	"	1	"	"	"	"	
Manganese	97.1	10.0	0.6	"	1	"	"	"	"	
Sodium	7270	200	120	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09


AWL120726-46 1207334-07 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Ethanol	ND	20.0	2.6	ug/l	1	AVG0350	07/30/12	07/31/12	EPA 8260B	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichloropropane	ND	0.5	0.1	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-46 1207334-07 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

cis-1,3-Dichloropropene	ND	0.5	0.08	ug/l	1	AVG0350	07/30/12	07/31/12	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
n-Butylbenzene	ND	0.5	0.08	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-46 1207334-07 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dibromo-3-chloropropane	ND	0.5	0.3	ug/l	1	AVG0350	07/30/12	07/31/12	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>110 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.5 %</i>	% Recovery Limits		<i>70-130</i>					"	

Ion Chromatography

Nitrate as Nitrogen	0.21	0.11	0.02	mg/L	1	AVG0342	07/27/12	07/27/12	EPA 300.0	
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVG0303	07/26/12	07/26/12	SM5540C	
Total Hardness	112	5.00	2.86	"	1	AVG0325	07/27/12	07/27/12	SM2340B	

Total Recoverable Metals

Aluminum	209	50.0	24.5	ug/l	1	AVH0031	08/02/12	08/06/12	EPA 200.7	
Arsenic	4.0	10.0	1.0	"	1	"	"	"	"	J
Boron	44.3	50.0	0.8	"	1	"	"	"	"	J
Iron	321	20.0	11.5	"	1	"	"	"	"	
Manganese	58.6	10.0	0.6	"	1	"	"	"	"	
Sodium	10600	200	120	"	1	"	"	"	"	

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09


AWL120726-50 1207334-08 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Ethanol	ND	20.0	2.6	ug/l	1	AVG0350	07/30/12	07/31/12	EPA 8260B	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichloropropane	ND	0.5	0.1	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-50 1207334-08 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

cis-1,3-Dichloropropene	ND	0.5	0.08	ug/l	1	AVG0350	07/30/12	07/31/12	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
n-Butylbenzene	ND	0.5	0.08	"	1	"	"	"	"	

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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-50 1207334-08 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dibromo-3-chloropropane	ND	0.5	0.3	ug/l	1	AVG0350	07/30/12	07/31/12	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>111 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.4 %</i>	% Recovery Limits		<i>70-130</i>					"	

Ion Chromatography

Nitrate as Nitrogen	0.08	0.11	0.02	mg/L	1	AVG0342	07/27/12	07/27/12	EPA 300.0	J
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVG0303	07/26/12	07/26/12	SM5540C	
Total Hardness	62.0	5.00	2.86	"	1	AVG0325	07/27/12	07/27/12	SM2340B	

Total Recoverable Metals

Aluminum	113	50.0	24.5	ug/l	1	AVH0031	08/02/12	08/06/12	EPA 200.7	
Arsenic	1.0	10.0	1.0	"	1	"	"	"	"	J
Boron	17.0	50.0	0.8	"	1	"	"	"	"	J
Iron	117	20.0	11.5	"	1	"	"	"	"	
Manganese	17.0	10.0	0.6	"	1	"	"	"	"	
Sodium	4340	200	120	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09


AWL120726-51 1207334-09 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Ethanol	ND	20.0	2.6	ug/l	1	AVG0350	07/30/12	07/31/12	EPA 8260B	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	14.4	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-51 1207334-09 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

4-Methyl-2-pentanone	ND	5.0	0.3	ug/l	1	AVG0350	07/30/12	07/31/12	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
n-Butylbenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.5	0.3	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-51 1207334-09 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	ND	0.5	0.09	ug/l	1	AVG0350	07/30/12	07/31/12	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>112 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.0 %</i>	% Recovery Limits		<i>70-130</i>					"	

Ion Chromatography

Nitrate as Nitrogen	0.05	0.11	0.02	mg/L	1	AVG0342	07/27/12	07/27/12	EPA 300.0	J
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVG0303	07/26/12	07/26/12	SM5540C	
Total Hardness	ND	5.00	2.86	"	1	AVG0325	07/27/12	07/27/12	SM2340B	

Total Recoverable Metals

Aluminum	49.5	50.0	24.5	ug/l	1	AVH0031	08/02/12	08/06/12	EPA 200.7	J
Arsenic	ND	10.0	1.0	"	1	"	"	"	"	
Boron	ND	50.0	0.8	"	1	"	"	"	"	
Iron	ND	20.0	11.5	"	1	"	"	"	"	
Manganese	1.3	10.0	0.6	"	1	"	"	"	"	J
Sodium	ND	200	120	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-51 1207334-09RE1 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Acetone	1780	200	22.4	ug/l	40	AVG0350	07/31/12	07/31/12	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>	<i>100 %</i>	% Recovery Limits		<i>70-130</i>						"
<i>Surrogate: Toluene-d8</i>	<i>96.6 %</i>	% Recovery Limits		<i>70-130</i>						"
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>114 %</i>	% Recovery Limits		<i>70-130</i>						"

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-55 1207334-10 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Ethanol	ND	20.0	2.6	ug/l	1	AVG0350	07/30/12	07/31/12	EPA 8260B	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	0.1	0.5	0.1	"	1	"	"	"	"	J
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichloropropane	ND	0.5	0.1	"	1	"	"	"	"	

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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09


AWL120726-55 1207334-10 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

cis-1,3-Dichloropropene	ND	0.5	0.08	ug/l	1	AVG0350	07/30/12	07/31/12	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
n-Butylbenzene	ND	0.5	0.08	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-55 1207334-10 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dibromo-3-chloropropane	ND	0.5	0.3	ug/l	1	AVG0350	07/30/12	07/31/12	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>111 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.2 %</i>	% Recovery Limits		<i>70-130</i>					"	

Ion Chromatography

Nitrate as Nitrogen	17.8	1.10	0.20	mg/L	10	AVG0342	07/27/12	07/27/12	EPA 300.0	
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVG0303	07/26/12	07/26/12	SM5540C	
Total Hardness	230	5.00	2.86	"	1	AVG0325	07/27/12	07/27/12	SM2340B	

Total Recoverable Metals

Aluminum	47.9	50.0	24.5	ug/l	1	AVH0031	08/02/12	08/06/12	EPA 200.7	J
Arsenic	34.8	10.0	1.0	"	1	"	"	"	"	
Boron	141	50.0	0.8	"	1	"	"	"	"	
Iron	38.5	20.0	11.5	"	1	"	"	"	"	
Manganese	2.9	10.0	0.6	"	1	"	"	"	"	J
Sodium	68000	200	120	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09


AWL120726-56 1207334-11 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Ethanol	ND	20.0	2.6	ug/l	1	AVG0350	07/30/12	07/31/12	EPA 8260B	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichloropropane	ND	0.5	0.1	"	1	"	"	"	"	

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Laboratory Representative

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-56 1207334-11 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

cis-1,3-Dichloropropene	ND	0.5	0.08	ug/l	1	AVG0350	07/30/12	07/31/12	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
n-Butylbenzene	ND	0.5	0.08	"	1	"	"	"	"	

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Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-56 1207334-11 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dibromo-3-chloropropane	ND	0.5	0.3	ug/l	1	AVG0350	07/30/12	07/31/12	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>110 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.5 %</i>	% Recovery Limits		<i>70-130</i>					"	

Ion Chromatography

Nitrate as Nitrogen	18.3	1.10	0.20	mg/L	10	AVG0342	07/27/12	07/27/12	EPA 300.0	
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVG0303	07/26/12	07/26/12	SM5540C	
Total Hardness	232	5.00	2.86	"	1	AVG0325	07/27/12	07/27/12	SM2340B	

Total Recoverable Metals

Aluminum	56.4	50.0	24.5	ug/l	1	AVH0066	08/06/12	08/08/12	EPA 200.7	
Arsenic	35.9	10.0	1.0	"	1	"	"	"	"	
Boron	141	50.0	0.8	"	1	"	"	"	"	
Iron	46.3	20.0	11.5	"	1	"	"	"	"	
Manganese	3.3	10.0	0.6	"	1	"	"	"	"	J
Sodium	66300	200	120	"	1	"	"	"	"	

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Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-57 1207334-12 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Ethanol	ND	20.0	2.6	ug/l	1	AVG0350	07/30/12	07/31/12	EPA 8260B	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichloropropane	ND	0.5	0.1	"	1	"	"	"	"	

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-57 1207334-12 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

cis-1,3-Dichloropropene	ND	0.5	0.08	ug/l	1	AVG0350	07/30/12	07/31/12	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
n-Butylbenzene	ND	0.5	0.08	"	1	"	"	"	"	

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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-57 1207334-12 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dibromo-3-chloropropane	ND	0.5	0.3	ug/l	1	AVG0350	07/30/12	07/31/12	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>110 %</i>	% Recovery Limits		<i>70-130</i>						"
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>	% Recovery Limits		<i>70-130</i>						"
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.7 %</i>	% Recovery Limits		<i>70-130</i>						"

Ion Chromatography

Nitrate as Nitrogen	17.8	0.55	0.10	mg/L	5	AVG0342	07/27/12	07/27/12	EPA 300.0	
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVG0303	07/26/12	07/26/12	SM5540C	
Total Hardness	228	5.00	2.86	"	1	AVG0325	07/27/12	07/27/12	SM2340B	

Total Recoverable Metals

Aluminum	111	50.0	24.5	ug/l	1	AVH0066	08/06/12	08/08/12	EPA 200.7	
Arsenic	35.8	10.0	1.0	"	1	"	"	"	"	
Boron	141	50.0	0.8	"	1	"	"	"	"	
Iron	129	20.0	11.5	"	1	"	"	"	"	
Manganese	26.5	10.0	0.6	"	1	"	"	"	"	
Sodium	66200	200	120	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-58 1207334-13 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Ethanol	ND	20.0	2.6	ug/l	1	AVG0350	07/30/12	07/31/12	EPA 8260B	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichloropropane	ND	0.5	0.1	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09


AWL120726-58 1207334-13 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

cis-1,3-Dichloropropene	ND	0.5	0.08	ug/l	1	AVG0350	07/30/12	07/31/12	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
n-Butylbenzene	ND	0.5	0.08	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-58 1207334-13 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dibromo-3-chloropropane	ND	0.5	0.3	ug/l	1	AVG0350	07/30/12	07/31/12	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>112 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: Toluene-d8</i>	<i>104 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.1 %</i>	% Recovery Limits		<i>70-130</i>					"	

Ion Chromatography

Nitrate as Nitrogen	0.06	0.11	0.02	mg/L	1	AVG0342	07/27/12	07/27/12	EPA 300.0	J
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVG0303	07/26/12	07/26/12	SM5540C	
Total Hardness	112	5.00	2.86	"	1	AVG0325	07/27/12	07/27/12	SM2340B	

Total Recoverable Metals

Aluminum	337	50.0	24.5	ug/l	1	AVH0066	08/06/12	08/08/12	EPA 200.7	
Arsenic	5.1	10.0	1.0	"	1	"	"	"	"	J
Boron	41.3	50.0	0.8	"	1	"	"	"	"	J
Iron	361	20.0	11.5	"	1	"	"	"	"	
Manganese	58.7	10.0	0.6	"	1	"	"	"	"	
Sodium	10300	200	120	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09


AWL120726-59 1207334-14 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Ethanol	ND	20.0	2.6	ug/l	1	AVG0350	07/30/12	07/31/12	EPA 8260B	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichloropropane	ND	0.5	0.1	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-59 1207334-14 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

cis-1,3-Dichloropropene	ND	0.5	0.08	ug/l	1	AVG0350	07/30/12	07/31/12	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
n-Butylbenzene	ND	0.5	0.08	"	1	"	"	"	"	

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Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-59 1207334-14 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dibromo-3-chloropropane	ND	0.5	0.3	ug/l	1	AVG0350	07/30/12	07/31/12	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>111 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.3 %</i>	% Recovery Limits		<i>70-130</i>					"	

Ion Chromatography

Nitrate as Nitrogen	0.14	0.11	0.02	mg/L	1	AVG0342	07/27/12	07/27/12	EPA 300.0	
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVG0303	07/26/12	07/26/12	SM5540C	
Total Hardness	116	5.00	2.86	"	1	AVG0325	07/27/12	07/27/12	SM2340B	

Total Recoverable Metals

Aluminum	383	50.0	24.5	ug/l	1	AVH0066	08/06/12	08/08/12	EPA 200.7	
Arsenic	3.9	10.0	1.0	"	1	"	"	"	"	J
Boron	38.4	50.0	0.8	"	1	"	"	"	"	J
Iron	361	20.0	11.5	"	1	"	"	"	"	
Manganese	130	10.0	0.6	"	1	"	"	"	"	
Sodium	9570	200	120	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09


AWL120726-60 1207334-15 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Ethanol	ND	20.0	2.6	ug/l	1	AVG0350	07/30/12	07/31/12	EPA 8260B	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichloropropane	ND	0.5	0.1	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09


AWL120726-60 1207334-15 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

cis-1,3-Dichloropropene	ND	0.5	0.08	ug/l	1	AVG0350	07/30/12	07/31/12	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
n-Butylbenzene	ND	0.5	0.08	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

AWL120726-60 1207334-15 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dibromo-3-chloropropane	ND	0.5	0.3	ug/l	1	AVG0350	07/30/12	07/31/12	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>109 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.8 %</i>	% Recovery Limits		<i>70-130</i>					"	

Ion Chromatography

Nitrate as Nitrogen	0.02	0.11	0.02	mg/L	1	AVG0342	07/27/12	07/27/12	EPA 300.0	J
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVG0303	07/26/12	07/26/12	SM5540C	
Total Hardness	112	5.00	2.86	"	1	AVG0325	07/27/12	07/27/12	SM2340B	

Total Recoverable Metals

Aluminum	327	50.0	24.5	ug/l	1	AVH0066	08/06/12	08/08/12	EPA 200.7	
Arsenic	4.7	10.0	1.0	"	1	"	"	"	"	J
Boron	40.8	50.0	0.8	"	1	"	"	"	"	J
Iron	343	20.0	11.5	"	1	"	"	"	"	
Manganese	67.2	10.0	0.6	"	1	"	"	"	"	
Sodium	10400	200	120	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVG0350 - EPA 8260B

Blank (AVG0350-BLK1)

Prepared & Analyzed: 07/30/12

<i>Surrogate: Dibromofluoromethane</i>	<i>13.1</i>			<i>ug/l</i>	<i>12.5</i>		<i>105</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.7</i>			<i>"</i>	<i>12.5</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.1</i>			<i>"</i>	<i>12.5</i>		<i>96.8</i>	<i>70-130</i>			
Gasoline Range Hydrocarbons	ND	50.0	9.0	"							
Ethanol	ND	20.0	2.6	"							
TBA	ND	5.0	1.2	"							
Methyl tert-Butyl Ether	ND	0.5	0.07	"							
Di-isopropyl ether	ND	0.5	0.07	"							
Ethyl tert-Butyl Ether	ND	0.5	0.06	"							
Tert-Amyl Methyl Ether	ND	0.5	0.08	"							
Dichlorodifluoromethane	ND	0.5	0.1	"							
Chloromethane	ND	0.5	0.1	"							
Vinyl chloride	ND	0.5	0.08	"							
Bromomethane	ND	0.5	0.2	"							
Chloroethane	ND	0.5	0.2	"							
Trichlorofluoromethane	ND	0.5	0.1	"							
Trichlorotrifluoroethane	ND	1.0	0.1	"							
Acetone	ND	5.0	0.6	"							
1,1-Dichloroethene	ND	0.5	0.05	"							
Iodomethane	ND	0.5	0.09	"							
Methylene chloride	ND	5.0	0.1	"							
Carbon disulfide	ND	0.5	0.08	"							
trans-1,2-Dichloroethene	ND	0.5	0.08	"							
1,1-Dichloroethane	ND	0.5	0.07	"							
2-Butanone	ND	5.0	0.4	"							
2,2-Dichloropropane	ND	0.5	0.2	"							
cis-1,2-Dichloroethene	ND	0.5	0.08	"							
Bromochloromethane	ND	0.5	0.2	"							
Chloroform	ND	0.5	0.1	"							
1,1,1-Trichloroethane	ND	0.5	0.08	"							
Carbon tetrachloride	ND	0.5	0.1	"							
1,1-Dichloropropene	ND	0.5	0.08	"							
Benzene	ND	0.5	0.06	"							
1,2-Dichloroethane	ND	0.5	0.09	"							
Dibromomethane	ND	0.5	0.1	"							
Trichloroethene	ND	0.5	0.09	"							
Bromodichloromethane	ND	0.5	0.1	"							
1,2-Dichloropropane	ND	0.5	0.1	"							
cis-1,3-Dichloropropene	ND	0.5	0.08	"							

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVG0350 - EPA 8260B

Blank (AVG0350-BLK1)

Prepared & Analyzed: 07/30/12

4-Methyl-2-pentanone	ND	5.0	0.3	ug/l
Toluene	ND	0.5	0.09	"
trans-1,3-Dichloropropene	ND	0.5	0.1	"
1,1,2-Trichloroethane	ND	0.5	0.09	"
Tetrachloroethene	ND	0.5	0.2	"
1,3-Dichloropropane	ND	0.5	0.2	"
2-Hexanone	ND	5.0	0.4	"
Dibromochloromethane	ND	0.5	0.08	"
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"
Chlorobenzene	ND	0.5	0.08	"
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"
Ethylbenzene	ND	0.5	0.06	"
m,p-Xylene	ND	1.0	0.1	"
o-Xylene	ND	0.5	0.08	"
Xylenes, total	ND	1.0	0.2	"
Styrene	ND	0.5	0.08	"
Bromoform	ND	0.5	0.1	"
Isopropylbenzene	ND	0.5	0.09	"
Bromobenzene	ND	0.5	0.09	"
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"
1,2,3-Trichloropropane	ND	0.5	0.1	"
n-Propylbenzene	ND	0.5	0.07	"
2-Chlorotoluene	ND	0.5	0.1	"
4-Chlorotoluene	ND	0.5	0.2	"
1,3,5-Trimethylbenzene	ND	0.5	0.1	"
tert-Butylbenzene	ND	0.5	0.1	"
1,2,4-Trimethylbenzene	ND	0.5	0.09	"
sec-Butylbenzene	ND	0.5	0.07	"
1,3-Dichlorobenzene	ND	0.5	0.1	"
4-Isopropyltoluene	ND	0.5	0.1	"
1,4-Dichlorobenzene	ND	0.5	0.1	"
1,2-Dichlorobenzene	ND	0.5	0.2	"
n-Butylbenzene	ND	0.5	0.08	"
1,2-Dibromo-3-chloropropane	ND	0.5	0.3	"
1,2,4-Trichlorobenzene	ND	0.5	0.09	"
Hexachlorobutadiene	ND	0.5	0.2	"
Naphthalene	ND	0.5	0.1	"
1,2,3-Trichlorobenzene	ND	0.5	0.2	"

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVG0350 - EPA 8260B

LCS (AVG0350-BS1)

Prepared & Analyzed: 07/30/12

Surrogate: Dibromofluoromethane	12.8			ug/l	12.5		102	70-130			
Surrogate: Toluene-d8	12.4			"	12.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	12.1			"	12.5		97.0	70-130			
1,1-Dichloroethene	17.9	0.5	0.05	"	20.0		89.5	80-120			
Benzene	19.1	0.5	0.06	"	20.0		95.6	80-120			
Trichloroethene	18.3	0.5	0.09	"	20.0		91.5	80-120			
Toluene	19.5	0.5	0.09	"	20.0		97.7	80-120			
Chlorobenzene	19.7	0.5	0.08	"	20.0		98.6	80-120			

LCS Dup (AVG0350-BS1)

Prepared & Analyzed: 07/30/12

Surrogate: Dibromofluoromethane	13.1			ug/l	12.5		105	70-130			
Surrogate: Toluene-d8	12.5			"	12.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	12.0			"	12.5		95.7	70-130			
1,1-Dichloroethene	17.8	0.5	0.05	"	20.0		89.0	80-120	0.504	15	
Benzene	19.4	0.5	0.06	"	20.0		96.9	80-120	1.40	15	
Trichloroethene	18.1	0.5	0.09	"	20.0		90.7	80-120	0.878	15	
Toluene	19.6	0.5	0.09	"	20.0		98.0	80-120	0.256	15	
Chlorobenzene	20.2	0.5	0.08	"	20.0		101	80-120	2.65	15	

Matrix Spike (AVG0350-MS1)

Source: 1207334-01

Prepared & Analyzed: 07/30/12

Surrogate: Dibromofluoromethane	13.3			ug/l	12.5		106	70-130			
Surrogate: Toluene-d8	12.7			"	12.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	12.4			"	12.5		99.4	70-130			
1,1-Dichloroethene	21.8	0.5	0.05	"	20.0	ND	109	80-120			
Benzene	21.7	0.5	0.06	"	20.0	ND	109	80-120			
Trichloroethene	20.0	0.5	0.09	"	20.0	ND	99.9	80-120			
Toluene	21.7	0.5	0.09	"	20.0	ND	108	80-120			
Chlorobenzene	22.0	0.5	0.08	"	20.0	ND	110	80-120			

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVG0350 - EPA 8260B

Matrix Spike Dup (AVG0350-MSD1)

Source: 1207334-01

Prepared & Analyzed: 07/30/12

<i>Surrogate: Dibromofluoromethane</i>	<i>13.2</i>			<i>ug/l</i>	<i>12.5</i>		<i>106</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.7</i>			<i>"</i>	<i>12.5</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>15.9</i>			<i>"</i>	<i>12.5</i>		<i>127</i>	<i>70-130</i>			
1,1-Dichloroethene	21.9	0.5	0.05	"	20.0	ND	109	80-120	0.183	15	
Benzene	21.9	0.5	0.06	"	20.0	ND	110	80-120	0.871	15	
Trichloroethene	20.1	0.5	0.09	"	20.0	ND	101	80-120	0.798	15	
Toluene	22.1	0.5	0.09	"	20.0	ND	111	80-120	2.19	15	
Chlorobenzene	22.8	0.5	0.08	"	20.0	ND	114	80-120	3.57	15	

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AVG0342 - EPA 300.0											
Blank (AVG0342-BLK1)					Prepared & Analyzed: 07/27/12						
Nitrate as Nitrogen	ND	0.11	0.02	mg/L							
LCS (AVG0342-BS1)					Prepared & Analyzed: 07/27/12						
Nitrate as Nitrogen	2.19	0.11	0.02	mg/L	2.26		97.0	80-120			
LCS Dup (AVG0342-BSD1)					Prepared & Analyzed: 07/27/12						
Nitrate as Nitrogen	2.18	0.11	0.02	mg/L	2.26		96.6	80-120	0.444	20	
Duplicate (AVG0342-DUP1)					Source: 1207334-04		Prepared & Analyzed: 07/27/12				
Nitrate as Nitrogen	0.08	0.11	0.02	mg/L		0.09			9.18	20	J
Matrix Spike (AVG0342-MS1)					Source: 1207334-04		Prepared & Analyzed: 07/27/12				
Nitrate as Nitrogen	2.35	0.11	0.02	mg/L	2.26	0.09	100	75-125			
Matrix Spike Dup (AVG0342-MSD1)					Source: 1207334-04		Prepared & Analyzed: 07/27/12				
Nitrate as Nitrogen	2.37	0.11	0.02	mg/L	2.26	0.09	101	75-125	0.593	20	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVG0303 - SM5540C

Blank (AVG0303-BLK1)

Prepared & Analyzed: 07/26/12

MBAS	ND	0.100	0.0600	mg/L
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LCS (AVG0303-BS1)

Prepared & Analyzed: 07/26/12

MBAS	0.489	0.100	0.0600	mg/L	0.500	97.8	90-110
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LCS Dup (AVG0303-BSD1)

Prepared & Analyzed: 07/26/12

MBAS	0.489	0.100	0.0600	mg/L	0.500	97.8	90-110	0.00	15
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Batch AVG0325 - SM2340B

Blank (AVG0325-BLK1)

Prepared & Analyzed: 07/27/12

Total Hardness	ND	5.00	2.86	mg/L
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LCS (AVG0325-BS1)

Prepared & Analyzed: 07/27/12

Total Hardness	48.0	5.00	2.86	mg/L	50.0	96.0	80-120
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LCS Dup (AVG0325-BSD1)

Prepared & Analyzed: 07/27/12

Total Hardness	52.0	5.00	2.86	mg/L	50.0	104	80-120	8.00	20
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Duplicate (AVG0325-DUP1)

Source: 1207334-14

Prepared & Analyzed: 07/27/12

Total Hardness	116	5.00	2.86	mg/L	116	0.00	20
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Matrix Spike (AVG0325-MS1)

Source: 1207334-09

Prepared & Analyzed: 07/27/12

Total Hardness	50.0	5.00	2.86	mg/L	50.0	ND	100	75-125
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Matrix Spike Dup (AVG0325-MSD1)

Source: 1207334-09

Prepared & Analyzed: 07/27/12

Total Hardness	48.0	5.00	2.86	mg/L	50.0	ND	96.0	75-125	4.08	20
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Excelchem Environmental Lab.



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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVH0031 - EPA 200.7

Blank (AVH0031-BLK1)

Prepared: 08/02/12 Analyzed: 08/03/12

Aluminum	ND	50.0	24.5	ug/l							
Boron	2.00	50.0	0.8	"							J
Arsenic	ND	10.0	1.0	"							
Iron	ND	20.0	11.5	"							
Manganese	ND	10.0	0.6	"							
Sodium	ND	200	120	"							

LCS (AVH0031-BS1)

Prepared: 08/02/12 Analyzed: 08/03/12

Boron	1040	50.0	0.8	ug/l	1000		104	85-115			
Aluminum	910	50.0	24.5	"	1000		91.0	85-115			
Arsenic	988	10.0	1.0	"	1000		98.8	85-115			
Iron	994	20.0	11.5	"	1000		99.4	85-115			
Manganese	996	10.0	0.6	"	1000		99.6	85-115			
Sodium	984	200	120	"	1000		98.4	85-115			

LCS Dup (AVH0031-BSD1)

Prepared: 08/02/12 Analyzed: 08/03/12

Aluminum	937	50.0	24.5	ug/l	1000		93.7	85-115	2.97	20	
Boron	1030	50.0	0.8	"	1000		103	85-115	1.74	20	
Arsenic	992	10.0	1.0	"	1000		99.2	85-115	0.354	20	
Iron	994	20.0	11.5	"	1000		99.4	85-115	0.0503	20	
Manganese	996	10.0	0.6	"	1000		99.6	85-115	0.0100	20	
Sodium	971	200	120	"	1000		97.1	85-115	1.34	20	


Matrix Spike (AVH0031-MS1)

Source: 1207334-01

Prepared: 08/02/12 Analyzed: 08/03/12

Boron	1040	50.0	0.8	ug/l	1000	21.4	102	75-125			
Aluminum	1020	50.0	24.5	"	1000	146	87.8	75-125			
Arsenic	986	10.0	1.0	"	1000	ND	98.6	75-125			
Iron	1140	20.0	11.5	"	1000	188	94.7	75-125			
Manganese	1020	10.0	0.6	"	1000	36.6	98.2	75-125			
Sodium	5280	200	120	"	1000	4300	98.2	75-125			

Excelchem Environmental Lab.



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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVH0031 - EPA 200.7

Matrix Spike Dup (AVH0031-MSD1)

Source: 1207334-01

Prepared: 08/02/12 Analyzed: 08/03/12

Aluminum	1070	50.0	24.5	ug/l	1000	146	92.2	75-125	4.21	25	
Boron	1050	50.0	0.8	"	1000	21.4	103	75-125	0.287	25	
Arsenic	981	10.0	1.0	"	1000	ND	98.1	75-125	0.488	25	
Iron	1160	20.0	11.5	"	1000	188	97.4	75-125	2.35	25	
Manganese	1020	10.0	0.6	"	1000	36.6	98.7	75-125	0.489	25	
Sodium	5270	200	120	"	1000	4300	97.3	75-125	0.171	25	

Batch AVH0066 - EPA 200.7

Blank (AVH0066-BLK1)

Prepared: 08/06/12 Analyzed: 08/08/12

Boron	ND	50.0	0.8	ug/l							
Aluminum	ND	50.0	24.5	"							
Arsenic	ND	10.0	1.0	"							
Iron	ND	20.0	11.5	"							
Manganese	ND	10.0	0.6	"							
Sodium	ND	200	120	"							

LCS (AVH0066-BS1)

Prepared: 08/06/12 Analyzed: 08/08/12


Aluminum	1080	50.0	24.5	ug/l	1000		108	85-115			
Boron	964	50.0	0.8	"	1000		96.4	85-115			
Arsenic	983	10.0	1.0	"	1000		98.3	85-115			
Iron	1040	20.0	11.5	"	1000		104	85-115			
Manganese	992	10.0	0.6	"	1000		99.2	85-115			
Sodium	958	200	120	"	1000		95.8	85-115			

LCS Dup (AVH0066-BSD1)

Prepared: 08/06/12 Analyzed: 08/08/12

Aluminum	1040	50.0	24.5	ug/l	1000		104	85-115	3.97	20	
Boron	968	50.0	0.8	"	1000		96.8	85-115	0.362	20	
Arsenic	984	10.0	1.0	"	1000		98.4	85-115	0.102	20	
Iron	1020	20.0	11.5	"	1000		102	85-115	1.45	20	
Manganese	988	10.0	0.6	"	1000		98.8	85-115	0.394	20	
Sodium	964	200	120	"	1000		96.4	85-115	0.635	20	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVH0066 - EPA 200.7

Matrix Spike (AVH0066-MS1)

Source: 1207334-11

Prepared: 08/06/12 Analyzed: 08/08/12

Boron	1140	50.0	0.8	ug/l	1000	141	100	75-125			
Aluminum	1070	50.0	24.5	"	1000	56.4	102	75-125			
Arsenic	1050	10.0	1.0	"	1000	35.9	101	75-125			
Iron	1050	20.0	11.5	"	1000	46.3	101	75-125			
Manganese	977	10.0	0.6	"	1000	3.30	97.4	75-125			
Sodium	67400	200	120	"	1000	66300	112	75-125			

Matrix Spike Dup (AVH0066-MSD1)

Source: 1207334-11

Prepared: 08/06/12 Analyzed: 08/08/12

Boron	1130	50.0	0.8	ug/l	1000	141	99.2	75-125	0.791	25	
Aluminum	1060	50.0	24.5	"	1000	56.4	100	75-125	1.69	25	
Arsenic	1040	10.0	1.0	"	1000	35.9	100	75-125	0.957	25	
Iron	1040	20.0	11.5	"	1000	46.3	98.9	75-125	1.63	25	
Manganese	970	10.0	0.6	"	1000	3.30	96.7	75-125	0.760	25	
Sodium	66700	200	120	"	1000	66300	42.0	75-125	1.04	25	QL-01

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

Notes and Definitions

QL-01 Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

ND Analyte not detected at reporting limit.

NR Not reported

Analysis Method

EPA 8260, EPA 8021/8015M

EPA 8270, EPA 8081, EPA 8082, EPA 8141, EPA 8015M (extractable)

Metals

TCLP

Not Specified

Prep Method

EPA 5030B

Water - EPA 3510C, Soil- EPA 3550B

Water- 3005A, Soil- 3050B

EPA 1311

Same as Analysis Method

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Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

Excelchem Environmental Labs				CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST			
1135 W. Sunset Blvd. Suite A Roshar, CA 95765 Phone #: 916-543-4445 Fax: 916-543-4449 Project Manager: Calvin Yang, Leticia Valadez				Electronic Data Deliverables Request: <input checked="" type="checkbox"/> PDF <input type="checkbox"/> Geotracker (data in) <input type="checkbox"/> Other (please specify)			
Company/Address: Central Valley Regional Water Quality Control Board Sun Center Drive Suite #200 Cordova, CA 95670				Email Address: ccwang@waterboards.ca.gov lvaladez@waterboards.ca.gov			
Project Number/OF: 10-026-150-0				Project Name: MUN Evaluation			
Project Location:				Project Name and Signature:			
Sample ID	Sampling Date	Time	Container	Method Preserved	Matrix		Remarks/Condition of Sample
					WATER	SOIL	
AWIL 120726-40	8:01		X	X	X	X	
AWIL 120726-41	8:14		X	X	X	X	
AWIL 120726-42	9:06		X	X	X	X	
AWIL 120726-43	9:28		X	X	X	X	
AWIL 120726-44	9:51		X	X	X	X	
AWIL 120726-45	10:18		X	X	X	X	
AWIL 120726-46	10:32		X	X	X	X	
AWIL 120726-50	9:01		X	X	X	X	
AWIL 120726-51	7:20		X	X	X	X	
AWIL 120726-55	11:16		X	X	X	X	
AWIL 120726-56	11:42		X	X	X	X	
AWIL 120726-57	11:54		X	X	X	X	
AWIL 120726-58	13:34		X	X	X	X	
AWIL 120726-59	14:18		X	X	X	X	
AWIL 120726-60	14:33		X	X	X	X	
Relinquished by: <i>Calvin Yang</i> Date: 7/26/12 Time: 1550				Received by: <i>Leticia Valadez</i> Date: 7/26/12 Time: 1550			
Relinquished by: <i>Calvin Yang</i> Date: 7/26/12 Time: 1550				Received by: <i>Leticia Valadez</i> Date: 7/26/12 Time: 1550			

Excelchem Environmental Lab.

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Calvin Yang

Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported:
08/09/12 10:09

Sample Integrity

WORK ORDER 1207334

Date Received: 7/26/12

Section 1 - Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCELCHEM Courier Fed-Ex Other: _____
Transported In: Ice Chest Box Hand
Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: _____
Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient / On Ice
Temperature of Samples (°C): 9 Ice Chest Temperature(s) (°C): 7

Section 2 - Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	<input checked="" type="checkbox"/>			
Did all bottle labels agree with COC?	<input checked="" type="checkbox"/>			
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?			<input checked="" type="checkbox"/>	
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Section 3 - Summa/Flow regulator Info.

Used Summa#: _____
Unused Summa#: _____
Cleaning Summa#: _____
Regulator#: _____
Was there any visual damage to summa canisters or flow regulators? Explain. N/A
**Bottles not labeled, but sample ID is written on bottle. Using COC for date/time.
*VOAs in labeled bags, no individual labels
*COC has preservative, HNO₃ noted, but Calvin said they were NOT preserved when dropping off
COC notes samples for which there are no bottles: -50 and -61 500 mL w/ HNO₃

Section 4 - COC Info.

	Completed		Info From Container		Completed		Comments
	Yes	No			Yes	No	
Was COC Received	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
Date Sampled	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
Time Sampled	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
Sample ID	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
Rush TAT		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Analysis Requested					<input checked="" type="checkbox"/>		
Samples arrived within holding time					<input checked="" type="checkbox"/>		
Any hold times less than 72 hrs					<input checked="" type="checkbox"/>		
Client Name					<input checked="" type="checkbox"/>		
Address/Telephone #					<input checked="" type="checkbox"/>		

Section 5 - Comments / Discrepancies

Was Client notified of discrepancies: Yes No N/A Notified by: _____
Explanations / Comments: _____

Samples Labeled by: Jason
Bin #s: P8/D3C
COC Scanned/Attached by: Jason
Sample labels reviewed by: PC

Filled Jason Jude
Out by: _____

Date: 7/26/12
Time: 1550

Excelchem Environmental Lab.



Laboratory Representative

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